

The image is a large, symmetrical, abstract graphic composed of the letters 'S' and 'Y' arranged in a grid-like pattern. The letters are black and set against a white background. The overall shape is roughly rectangular, with a central vertical column of 'Y's and 'S's. The left and right sides are filled with 'S's, and the top and bottom edges are also filled with 'S's. The central column consists of 'Y's, with 'S's interspersed between them. The pattern is highly regular and repetitive, creating a complex, textured appearance. The letters are arranged in a way that they form a large, stylized 'W' or a complex letter 'M'.

SDA
VO4

The image displays a 2x5 grid of ASCII art figures. The top row features five figures constructed from the characters 'S', 'C', 'V', and 'E'. The bottom row features five figures constructed from the characters 'L', 'I', and 'S'. A white curved line is drawn across the middle of the grid, separating the two rows. The figures are arranged in a way that suggests a sequence or a progression of shapes.

(1) 142 DECLARATIONS

```
0000 1      .IF      NDF,PRMSW
0000 2      .TITLE   SCSVEC - System Communications Service Vectors
0000 3      .IFF
0000 4      .TITLE   SCSLOA - System Communications Service Loadcode
0000 5      .ENDC
0000 6      .IDENT   'V04-000'
0000 7
0000 8 *****
0000 9 *****
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0000 27  *
0000 28  *
0000 29  *****
0000 30  :
0000 31  :
0000 32  ++
0000 33  : FACILITY:
0000 34  :   Executive data base
0000 35  :
0000 36  : ABSTRACT:
0000 37  :   This module contains the global entry point vectors for System
0000 38  :   Communications Services (SCS). The targets of these vectors are
0000 39  :   updated to point to the actual SCS image after it is loaded into
0000 40  :   non-paged pool.
0000 41  :
0000 42  : ENVIRONMENT:
0000 43  :
0000 44  : AUTHOR:  KERBEY T. ALTMANN, CREATION DATE:  22-APR-1981
0000 45  :
0000 46  : MODIFIED BY:
0000 47  :
0000 48  :   V03-033 DWT0237      David W. Thiel      10-Aug-1984
0000 49  :   Correct reference to RDTSL_MAXRDIDX to match change
0000 50  :   made in V03-032 below.
0000 51  :
0000 52  :   V03-032 NPK3058      N. Kronenberg      25-Jul-1984
0000 53  :   Fix maxumme RDTE index to be index rather than number
0000 54  :   of RDTEs configured.
0000 55  :
0000 56  :   V03-031 NPK3056      N. Kronenberg      23-Jul-1984
0000 57  :   Add capacity in Connection Descriptor List for addition
```


0000 58 : of CDT's beyond the sysgened number. Add to SCS\$ALLOC_CDT
0000 59 : the ability to allocate more CDTs from pool if the
0000 60 : are no free CDTs linked to the CDL.
0000 61 : Fix error in computation of CDL max index in CDL header
0000 62 : (it was # CDTs not index.)
0000 63 :
0000 64 : V03-030 TCM0001 Trudy C. Matthews 20-Jul-1984
0000 65 : Remove routine IOC\$THREADCRB; put it in IOSUBNPAG instead.
0000 66 :
0000 67 : V03-029 KTA3113 Kerbey T. Altmann 20-Mar-1984
0000 68 : Add new entry - SCS\$SHUTDOWN to shut down all SCS virtual
0000 69 : circuits. Add new pointers for MSCP image and list of PDTs.
0000 70 :
0000 71 : V03-028 KTA3102 Kerbey T. Altmann 09-Feb-1984
0000 72 : Prevent RDT/CDT sequence numbers from ever being zero.
0000 73 :
0000 74 : V03-027 TMK0001 Todd M. Katz 05-Jan-1984
0000 75 : Change SCS\$DIRECTORY so that it sends a counted sequential
0000 76 : message back to the remote SYSAP with the results of the
0000 77 : directory lookup. SCS\$DIRECTORY was sending an un-counted
0000 78 : sequential message, and if the local SCS\$MAXMSG size was greater
0000 79 : than the remote SCS\$MAXMSG size, then this was resulting in
0000 80 : the remote port driver receiving a sequential message larger
0000 81 : in size than any of its receive buffers.
0000 82 :
0000 83 : V03-026 KDM0063 Kathleen D. Morse 03-Aug-1983
0000 84 : Replace random number generation usage of PR\$_TODR with
0000 85 : usage of EXE\$GQ_SYSTIME.
0000 86 :
0000 87 : V03-025 NPK3029 N. Kronenberg 22-Jul-1983
0000 88 : Zero most fields in a freshly allocated CDT (needed
0000 89 : for per connection counters.)
0000 90 : Modify SCS\$CONFIG_PTH to take advantage of rearranged
0000 91 : path block.
0000 92 :
0000 93 : V03-024 MSH0010 Maryann Hinden 11-Jul-1983
0000 94 : Fix method of addressing SCS\$GA_EXISTS.
0000 95 :
0000 96 : V03-023 MSH0009 Maryann Hinden 27-Jun-1983
0000 97 : Modifications to error handling for SCS\$DIRECTORY.
0000 98 : Keep process poller from polling a given system until
0000 99 : current poll is complete.
0000 100 :
0000 101 : V03-022 MSH0008 Maryann Hinden 27-Jun-1983
0000 102 : Use remote process name in DIR_LOOKUP which won't get
0000 103 : deallocated.
0000 104 :
0000 105 : V03-021 MSH0007 Maryann Hinden 23-Jun-1983
0000 106 : Use \$PRCPOLDEF. Check for nonpaged pool not available
0000 107 : in SCS\$DIRECTORY. Add SCS\$GA_EXISTS to start CONFIGURE
0000 108 : process.
0000 109 :
0000 110 : V03-020 MSH0006 Maryann Hinden 18-May-1983
0000 111 : Put nodename in process poller mailbox.
0000 112 :
0000 113 : V03-019 ROW0184 Ralph O. Weber 19-APR-1983
0000 114 : Change order of wait queue searching in SCS\$LKP_MSGWAIT so

0000 115 : that message buffer wait queue is scanned first. This is done
0000 116 : because the way PADRIVER enters CDRPs into to the send credit
0000 117 : and message buffer wait queues makes the message buffer wait
0000 118 : queue is likely to contain older (longer waiting) CDRPs. The
0000 119 : connection manager needs this additional level of age ordering
0000 120 : to help provide sequential delivery of messages.
0000 121 :
0000 122 : V03-018 MSH0005 Maryann Hinden 19-Apr-1983
0000 123 : Use only one CDRP per connection.
0000 124 :
0000 125 : V03-017 JWH0217 Jeffrey W. Horn 14-Apr-1983
0000 126 : Change second SLV table to be generated with SLVTAB macro.
0000 127 :
0000 128 : V03-016 MSH0004 Maryann Hinden 08-Apr-1983
0000 129 : Changes to support HSC. Various bug fixes.
0000 130 :
0000 131 : V03-015 JWH0211 Jeffrey W. Horn 13-Apr-1983
0000 132 : Use SLVTAB macro to produce loadable-code prologue.
0000 133 :
0000 134 : V03-014 MSH0003 Maryann Hinden 01-Apr-1983
0000 135 : Move location of MY_PROC.
0000 136 :
0000 137 : V03-013 MSH0002 Maryann Hinden 24-Mar-1983
0000 138 :
0000 139 :
0000 140 :--


```
0000 142 .SBTTL DECLARATIONS
0000 143 :
0000 144 : INCLUDE FILES
0000 145 :
0000 146 .nocross
0000 147 .IF DF,PRMSW ; For linkage with SCS
0000 148 $CCBDEF
0000 149 $CDLDEF
0000 150 $CDRPDEF
0000 151 $CDTDEF
0000 152 $CRBDEF
0000 153 $DDBDEF
0000 154 $DDTDEF
0000 155 $DYNDEF
0000 156 $IPLDEF
0000 157 $PBDEF
0000 158 $PBDEF
0000 159 $PDTDEF
0000 160 $PRCPOLDEF
0000 161 $RDDEF
0000 162 $RDTDEF
0000 163 .IFTF ; Always need the following definition
0000 164 $SBDEF
0000 165 .IFT
0000 166 $SBDEF
0000 167 $SDIRDEF
0000 168 $SPNBDEF
0000 169 $SPPBDEF
0000 170 $SSDEF
0000 171 $TQDEF
0000 172 $UCBDEF
0000 173 .ENDC
0000 174 .cross
0000 175
0000 176 :
0000 177 : Local macros
0000 178 :
0000 179 .MACRO LIST_HEAD,ENTRY
0000 180 .ALIGN LONG
0000 181 ENTRY:: .LONG ENTRY
0000 182 .LONG ENTRY
0000 183 .ENDM
0000 184
0000 185 .MACRO POINTER,ENTRY
0000 186 .ALIGN LONG
0000 187 ENTRY:: .LONG 0
0000 188 .ENDM
0000 189
0000 190 :
0000 191 : Misc labels
0000 192 :
0000 193 .IF NDF,PRMSW ; For linkage with SYS.EXE
0000 194 .PSECT $$$500,LONG
0000 195
0000 196 :
0000 197 : Quadword linked list heads
0000 198 :
```

```
0000 199
0000 200 SC$GQ_CONFIG::
00000000' 0000 201 .LONG SC$GA_LOCALSB
00000000' 0004 202 .LONG SC$GA_LOCALSB
0008 203 LIST_HEAD SC$GQ_DIRECT
0010 204 LIST_HEAD SC$GQ_POLL ; List of SPPB's giving process names
0018 205
0018 206 :
0018 207 : Longword pointers
0018 208 :
0018 209
0018 210 POINTER SC$GL_BDT
001C 211 POINTER SC$GL_CDL
0020 212 POINTER SC$GL_RDT
0024 213 POINTER SC$GL_MLEN
0028 214 POINTER SC$GL_MCADR
002C 215 POINTER SC$GL_MSCP ; Start of MSCP server process
0030 216 POINTER SC$GL_PDT ; Singly link list of PDT's
0034 217
0034 218 :
0034 219 : Process poller static data
0034 220 :
0034 221
0034 222 SC$GA_DFLTMSK:: ; Mask of processes to enable
00000036 0034 223 .BLKB SB$S_ENBMSK ; in new systems that appear
0036 224 SC$GW_NEXTBIT:: ; Next bit available for assignment
0000 0036 225 .WORD 0
0038 226
00000000 0038 227 SC$GA_EXISTS:: .LONG 0 ; Flag to indicate presence of SCS
003C 228
003C 229 DO_RSB:
50 D4 003C 230 CLRL R0 ; Failure status
05 003E 231 RSB ; Ignore call to unloaded routine
003F 232
003F 233 .ALIGN LONG
0040 234 :
0040 235 : Vector list
0040 236 :
0040 237
0040 238 SC$AL_LOAVEC::
0040 239 .IFF
0040 240 .PSECT $$$000, LONG
0040 241 SCS_START:
0040 242 SLVTAB END = SCS_END, -
0040 243 INITRTN = INIT_BEGIN, -
0040 244 SUBTYP = DYN$C_LC_SCS, -
0040 245 FACILITY= <SCS_Loadable>
0040 246
0040 247 .ENDC
0040 248
0040 249 LOADVEC SC$ACCEPT
0046 250 LOADVEC SC$ALLOC_CDT
004C 251 LOADVEC SC$ALLOC_RSPID
0052 252 LOADVEC SC$CONFIG_PTH
0058 253 LOADVEC SC$CONFIG_SYS
005E 254 LOADVEC SC$CONNECT
0064 255 LOADVEC SC$DEALL_CDT
```



```
006A 256 LOADVEC SCSS$DEALL RSPID
0070 257 LOADVEC SCSS$DISCONNECT
0076 258 LOADVEC SCSS$ENTER
007C 259 LOADVEC SCSS$LISTEN
0082 260 LOADVEC SCSS$LOCLOOKUP
0088 261 LOADVEC SCSS$REMOVE
008E 262 LOADVEC SCSS$RESUMEWAITR
0094 263 LOADVEC SCSS$UNSTALLUCB
009A 264 LOADVEC SCSS$LKP_RDTCDRP
00A0 265 LOADVEC SCSS$LKP_RDTWAIT
00A6 266 LOADVEC SCSS$RECYL RSPID
00AC 267 LOADVEC SCSS$FIND_RDTE
00B2 268 LOADVEC SCSS$LKP_MSGWAIT
00B8 269 LOADVEC SCSS$DIR_LOOKUP ; Search for processes on remote node
00BE 270 LOADVEC SCSS$NEW_SB,,DO_RSB ; Called when an SB is created/reused
00C4 271 LOADVEC SCSS$POLC_PROCC,,DO_RSB ; Declare a process name to the poller
00CA 272 LOADVEC SCSS$POLL_MODE ; Enable/Disable polling for a process
00D0 273 LOADVEC SCSS$POLL_MBX,,DO_RSB ; Declare a mailbox to receive poller notifi
00D6 274 LOADVEC SCSS$CANCEL_MBX ; Cancel notifications to a mailbox
00DC 275 LOADVEC SCSS$SHUTDOWN,,DO_RSB ; Shut down all SCS virtual circuits
00E2 276
00E2 277 :
00E2 278 : End of List
00E2 279 :
00E2 280 .IF NDF,PRMSW
```


SCSVEC
Symbol table- System Communications Service Vectors C 6
16-SEP-1984 01:08:44 VAX/VMS Macro V04-00
5-SEP-1984 03:47:22 [SYS.SRC]SCSVEC.MAR;1Page 7
(14)SEC
V04

DO_RSB	0000003C	R	02
EXES\$LOAD_ERROR	*****	X	02
SB\$\$ENBMSK	= 00000002		
SCS\$ACCEPT	00000040	RG	02
SCS\$ALLOC_CDT	00000046	RG	02
SCS\$ALLOC_RSPID	0000004C	RG	02
SCS\$AL_LOAVEC	00000040	RG	02
SCS\$CANCEL_MBX	000000D6	RG	02
SCS\$CONFIG_PTH	00000052	RG	02
SCS\$CONFIG_SYS	00000058	RG	02
SCS\$CONNECT	0000005E	RG	02
SCS\$DEALL_CDT	00000064	RG	02
SCS\$DEALL_RSPID	0000006A	RG	02
SCS\$DIR_LOOKUP	000000B8	RG	02
SCS\$DISCONNECT	00000070	RG	02
SCS\$ENTER	00000076	RG	02
SCS\$FIND_RDTE	000000AC	RG	02
SCS\$GA_DFLTMSK	00000034	RG	02
SCS\$GA_EXISTS	00000038	RG	02
SCS\$GA_LOCALSB	*****	X	02
SCS\$GL_BDT	00000018	RG	02
SCS\$GL_CDL	0000001C	RG	02
SCS\$GL_MCADR	00000028	RG	02
SCS\$GL_MCLN	00000024	RG	02
SCS\$GL_MSCP	0000002C	RG	02
SCS\$GL_PDT	00000030	RG	02
SCS\$GL_RDT	00000020	RG	02
SCS\$GQ_CONFIG	00000000	RG	02
SCS\$GQ_DIRECT	00000008	RG	02
SCS\$GQ_POLL	00000010	RG	02
SCS\$GW_NEXTBIT	00000036	RG	02
SCS\$LISTEN	0000007C	RG	02
SCS\$LKP_MSGWAIT	000000B2	RG	02
SCS\$LKP_RDTCDRP	0000009A	RG	02
SCS\$LKP_RDTWAIT	000000A0	RG	02
SCS\$LOC_LOOKUP	00000082	RG	02
SCS\$NEW_SB	000000BE	RG	02
SCS\$POLC_MBX	000000D0	RG	02
SCS\$POLL_MODE	000000CA	RG	02
SCS\$POLL_PROC	000000C4	RG	02
SCS\$RECYC_RSPID	000000A6	RG	02
SCS\$REMOVE	00000088	RG	02
SCS\$RESUMEWAITR	0000008E	RG	02
SCS\$SHUTDOWN	000000DC	RG	02
SCS\$UNSTALLUCB	00000094	RG	02

+-----+
! Psect synopsis !
+-----+

PSECT name

Allocation

PSECT No.

Attributes

ABS	00000000 (0.)	00 (0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE
\$AB\$\$	00000000 (0.)	01 (1.)	NOPIC	USR	CON	ABS	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE
\$\$\$500	000000E2 (226.)	02 (2.)	NOPIC	USR	CON	REL	LCL	NOSHR	EXE	RD	WRT	NOVEC	LONG

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
-----	-----	-----	-----
Initialization	32	00:00:00.06	00:00:00.96
Command processing	110	00:00:00.49	00:00:05.06
Pass 1	181	00:00:05.23	00:00:16.03
Symbol table sort	0	00:00:00.04	00:00:00.46
Pass 2	63	00:00:03.03	00:00:07.75
Symbol table output	5	00:00:00.05	00:00:00.14
Psect synopsis output	2	00:00:00.02	00:00:00.13
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	395	00:00:08.92	00:00:30.74

The working set limit was 1200 pages.

23875 bytes (47 pages) of virtual memory were used to buffer the intermediate code.

There were 10 pages of symbol table space allocated to hold 76 non-local and 0 local symbols.

2914 source lines were read in Pass 1, producing 16 object records in Pass 2.

12 pages of virtual memory were used to define 10 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name	Macros defined
-----	-----
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	3
TOTALS (all libraries)	5

149 GETS were required to define 5 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SCSVEC/OBJ=OBJ\$:SCSVEC MSRC\$:SCSVEC/UPDATE=(ENH\$:SCSVEC)+EXECML\$/LIB

0380

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Drive	Volume Label	File System	Size	Free Space	Used Space	Percentage Free
C:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
D:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
E:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
F:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
G:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
H:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
I:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
J:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
K:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
L:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
M:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
N:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
O:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
P:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
Q:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
R:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
S:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
T:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
U:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
V:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
W:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
X:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
Y:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%
Z:	MS-DOS 5.0	FAT	1024 MB	1024 MB	0 MB	100%